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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4

Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

March 3, 2004

4-SESD-EAB

MEMORANDUM

SUBJECT: Coosa River Water Sampling Investigation Report, SESD Project No. 03-1068 and
No. 04-0048

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THRU: Bill Cosgrove, Chief *Bill R Bokey Jr*
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TO: Jim Kutzman
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Attached is the report for the subject sampling investigation. If you have any questions,
please phone me at (706) 355-8776.

Attachment

cc: Carol Monell, WMD
Wes Hardegree, WMD
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**COOSA RIVER PCB WATER SAMPLING
INVESTIGATION REPORT
MARCH 2004
03-1068, 04-0048**



**U.S. EPA, Region 4
Science and Ecosystem Support Division
Ecological Assessment Branch
980 College Station Road
Athens, Georgia 30605**

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Distribution List

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1.0 Introduction

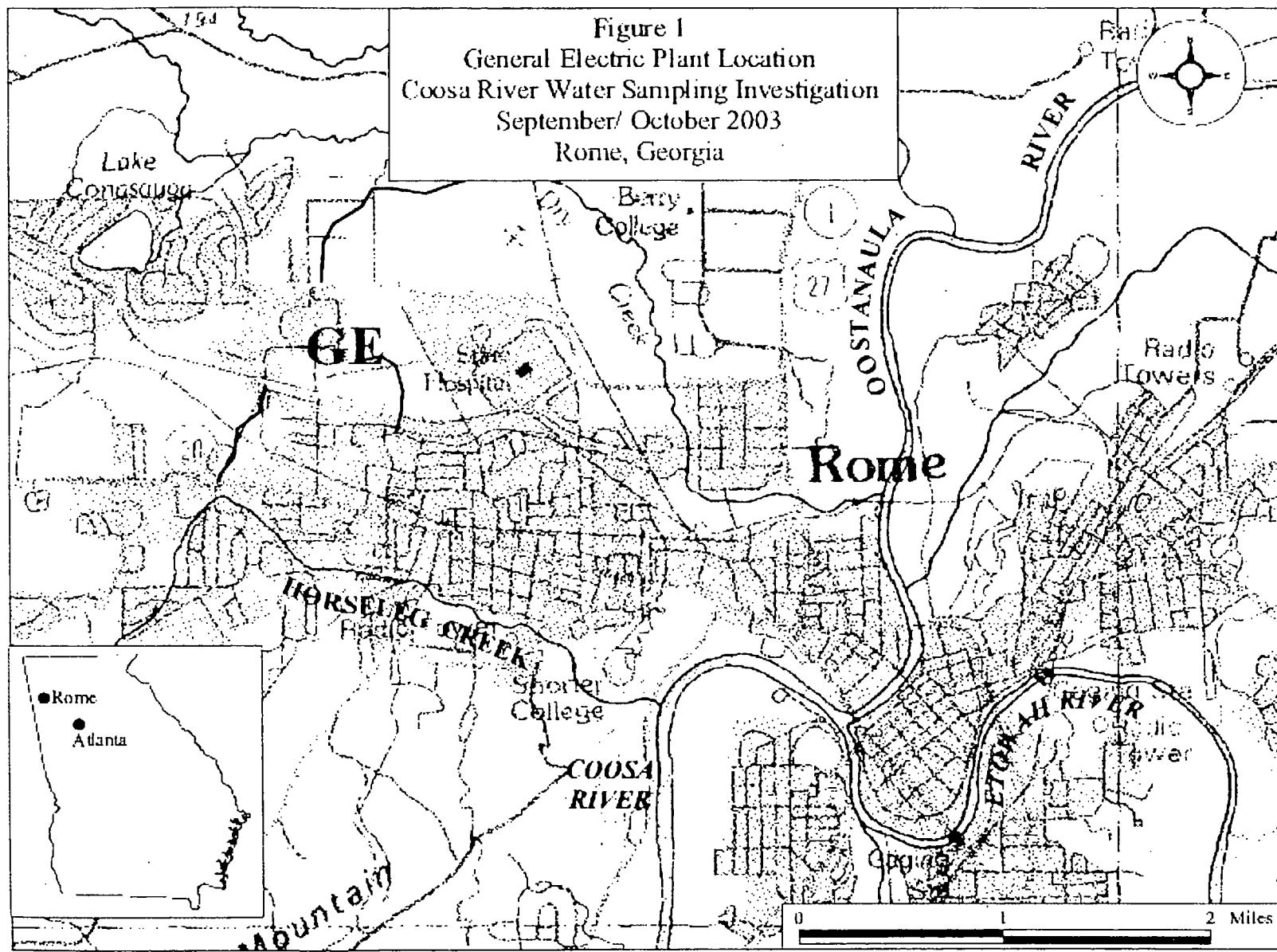
The U.S. Environmental Protection Agency (EPA), Region 4, Waste Management Division (WD), South Site Management Branch, requested that the Region 4, Science and Ecosystem Support Division (SESD) collect water samples from the Coosa River near Rome, Georgia and three of its tributaries, Horseleg Creek, Little Dry Creek, and the South Branch of Little Dry Creek to determine if polychlorinated biphenyls (PCBs) were present in the water column. Sediment and fish tissue samples were collected from the Coosa River by SESD in November 2002. The results of that sampling effort showed concentrations of PCBs in the fish tissue that exceeded Georgia Environmental Protection Division (GA EPD) consumption guidelines (EPA 2003a). The sediment samples did not show significant levels of PCBs, particularly in the top six-inches, which is generally considered critical for exposure for trophic level 3 fish and macroinvertebrate organisms involved in food web dynamics. PCB contamination has been documented at and around the General Electric (GE) Plant in Rome, Georgia (Blasland, Bouck, and Lee, Inc. 2000). The plant is located approximately 2 miles northwest of the Coosa River (Figure 1). The GE Plant is the most likely source of PCBs in the surface waters in question (Blasland, Bouck, and Lee, Inc. 2000). Historically, GE had discharged wastewater and stormwater to the three previously mentioned tributaries.

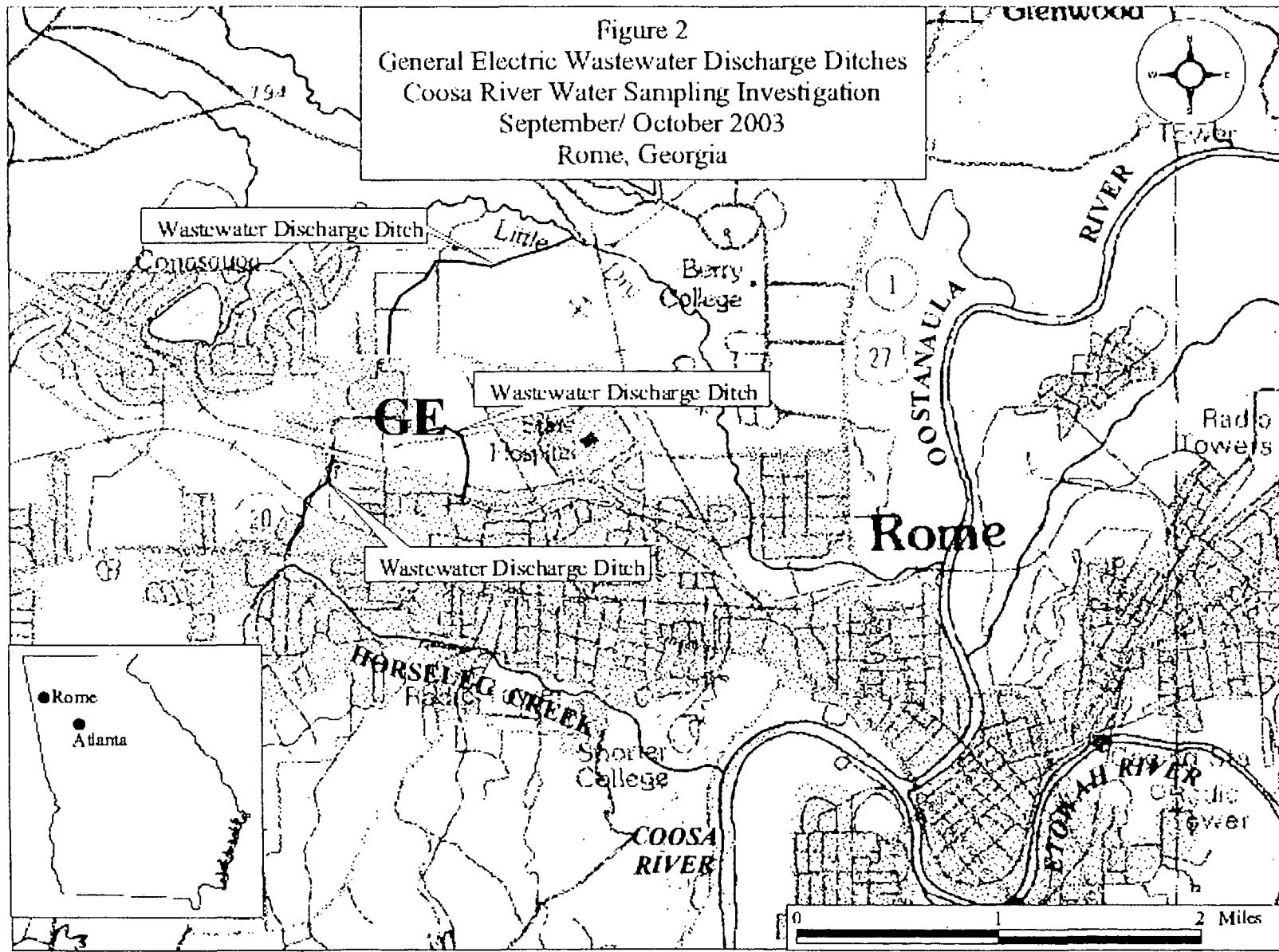
GE opened the Rome, Georgia plant in 1952 and produced a variety of medium-capacity electrical transformers. The production of electrical transformers utilized materials such as mineral oil, silicone fluid or askarel dielectric fluid designs. Askarel dielectric fluids are used as insulating fluids for electrical transformers. Dielectric fluids are composed of a combination of various chlorinated benzenes and PCBs. The trade name for GE's askarel dielectric fluid was Pyranol. (EPA 2001) PCBs were used in the manufacture of transformers at the Rome, Georgia plant from 1953 until 1977.

Prior to 1968, GE discharged all stormwater from the facility directly into four unlined ditches that discharged into either Little Dry Creek or Horseleg Creek. In 1968, GE installed oil/water separators on three of the ditches to remove potential PCB contaminated oils from the stormwater. A National Pollutant Discharge Elimination System (NPDES) permit was issued to GE for the four stormwater outfalls in 1975. Figure 2 shows the approximate locations of the ditches and their discharge points into the creeks. Outfalls 001 and 003 were located on the southwest corner of the plant and discharged into Horseleg Creek which after three miles flows into the Coosa River. Outfall 002 was located to the north of the plant and discharged into Little Dry Creek, which flows into the Oostanaula River. Outfall 004 was located on the eastern side of the plant and discharged into the South Branch of Little Dry Creek, a tributary to Little Dry Creek. In 1990, Outfalls 001 and 003 were combined and routed to an on-site treatment facility. In 1994, Outfall 004 was also routed to the treatment facility. Since 1994, the treated water has been discharged through permitted Outfall 003 into Horseleg Creek.

2.0 Objective

The objective of this sampling investigation was to determine if PCBs were present in the water column in the tributaries to the Oostanaula, Etowah and Coosa Rivers and the rivers themselves, thus providing a potential exposure pathway for the fish.





3.0 Study Area

South Branch Little Dry Creek

The South Branch Little Dry Creek is an intermittent stream that originates near the southwest end of the GE property. The creek flows east through a residential area along the southern edge of the GE property and eventually into Little Dry Creek. The creek was accessed off of Charlton Street in the city sewer right-of-way behind the Wesley Southern Methodist Church and Tolbert Park. The sample intake was approximately 100 yards upstream of the confluence with Little Dry Creek. The intake was placed at mid-stream and mid-depth. The creek was approximately 12 feet wide and the water depth was approximately 8 inches. Stream gaging was conducted 25 yards downstream of the sample intake point. The total volume of water pumped through the sampler for the sample collected at LDC1 was 1,004 liters.

Little Dry Creek

Little Dry Creek flows east approximately one mile north of the GE Plant. The stream meanders to the south for two miles after it passes the Central of Georgia Railroad and again flows east for 1 mile until it reaches the Oostanaula River. The sample station was accessed from Timothy Avenue. The sample intake point was 100 yards downstream of the confluence of the South Branch Little Dry Creek and Little Dry Creek. The stream was approximately 10 feet wide and the water depth was 0.5 feet. The intake was placed at mid-stream and mid-depth. Stream gaging was conducted approximately 20 yards downstream of the sample intake point. The total volume of water pumped through the sampler for the samples collected at LDC2 was 1,001 liters.

Horseleg Creek

Horseleg Creek originates in Camps Lake which is southwest of the GE property. Horseleg Creek generally flows in an easterly direction. Near Anders Road, the creek meanders to the north near West End School, then south and eventually southeast at Burnett Road until it reaches the Coosa River. The sample was collected downstream of the Hank Street crossing. The location was accessed from a city sewer right-of-way along the southern bank of the creek. The creek was approximately one foot deep and 20 feet wide. Stream gaging was conducted 30 yards downstream of the sample intake point. The total volume of water pumped through the sampler for the sample collected from Horseleg Creek was 1,001 liters.

Etowah River

The Etowah River flows east from Lake Allatoona in Cartersville, Georgia for approximately 48 river miles to Rome, Georgia. The Etowah River sample, ER, was collected from a boat. The boat was anchored with the bow facing into the current and the intake line for the sampler was secured from the bow. The total water depth was approximately eight feet and the intake was placed four feet from the surface. Due to excessive clogging of pre-filters in the intake line which slowed the pump rate, sampling was conducted over a two day period in order to reach the target volume of 1,000 liters. A total of 1,093 liters were pumped.

3.0 Study Area

South Branch Little Dry Creek

The South Branch Little Dry Creek is an intermittent stream that originates near the southwest end of the GE property. The creek flows east through a residential area along the southern edge of the GE property and eventually into Little Dry Creek. The creek was accessed off of Charlton Street in the city sewer right-of-way behind the Wesley Southern Methodist Church and Tolbert Park. The sample intake was approximately 100 yards upstream of the confluence with Little Dry Creek. The intake was placed at mid-stream and mid-depth. The creek was approximately 12 feet wide and the water depth was approximately 8 inches. Stream gaging was conducted 25 yards downstream of the sample intake point. The total volume of water pumped through the sampler for the sample collected at LDC1 was 1,004 liters.

Little Dry Creek

Little Dry Creek flows east approximately one mile north of the GE Plant. The stream meanders to the south for two miles after it passes the Central of Georgia Railroad and again flows east for 1 mile until it reaches the Oostanaula River. The sample station was accessed from Timothy Avenue. The sample intake point was 100 yards downstream of the confluence of the South Branch Little Dry Creek and Little Dry Creek. The stream was approximately 10 feet wide and the water depth was 0.5 feet. The intake was placed at mid-stream and mid-depth. Stream gaging was conducted approximately 20 yards downstream of the sample intake point. The total volume of water pumped through the sampler for the samples collected at LDC2 was 1,001 liters.

Horseleg Creek

Horseleg Creek originates in Camps Lake which is southwest of the GE property. Horseleg Creek generally flows in an easterly direction. Near Anders Road, the creek meanders to the north near West End School, then south and eventually southeast at Burnett Road until it reaches the Coosa River. The sample was collected downstream of the Hank Street crossing. The location was accessed from a city sewer right-of-way along the southern bank of the creek. The creek was approximately one foot deep and 20 feet wide. Stream gaging was conducted 30 yards downstream of the sample intake point. The total volume of water pumped through the sampler for the sample collected from Horseleg Creek was 1,001 liters.

Etowah River

The Etowah River flows east from Lake Allatoona in Cartersville, Georgia for approximately 48 river miles to Rome, Georgia. The Etowah River sample, ER, was collected from a boat. The boat was anchored with the bow facing into the current and the intake line for the sampler was secured from the bow. The total water depth was approximately eight feet and the intake was placed four feet from the surface. Due to excessive clogging of pre-filters in the intake line which slowed the pump rate, sampling was conducted over a two day period in order to reach the target volume of 1,000 liters. A total of 1,093 liters were pumped.

Oostanaula River

The Oostanaula River is formed by the convergence of the Conasauga and Coosawattee Rivers north of Calhoun, Georgia. The Oostanaula River flows southeast for approximately 49 river miles before it reaches Rome, Georgia. The Oostanaula River sample, OR, was collected from a boat. The intake was secured from the bow, with the bow facing into the current. The total depth was 12 feet and the intake was placed six feet below the surface. A total volume of 952 liters was pumped through the sampler.

Coosa River

The Coosa River forms near downtown Rome, Georgia where the Oostanaula and Etowah Rivers converge. The Coosa River flows west from Rome to the Georgia/Alabama state line. Sample CR was collected downstream of the mouth of Horseleg Creek. The sample intake was secured from the bow of the boat and the boat was anchored into the current. The total depth was 11 feet. The intake was placed at approximately 5.5 feet below the water surface. A total volume of 821 liters was pumped through the sampler.

4.0 Study Methods

The study was conducted in two phases. Phase one consisted of sampling the tributaries and was conducted during the week of 09/22/03. Phase two consisted of sampling the rivers and was conducted during the week of 10/21/03. A total of six samples were collected from the locations listed in Table 1.

Table 1
Sample Station Locations
Coosa River PCB Water Sampling Investigation
Rome, Georgia
September/October 2003
03-1068, 04-0048

Station	Location	GPS Coordinates
LDC1	South Branch Little Dry Creek	N 34° 16.138' W 85° 11.492'
LDC2	Little Dry Creek	N 34° 16.222' W 85° 11.385'
HLC1	Horseleg Creek	N 34° 15.571' W 85° 12.061'
ER	Etowah River	N 34° 14.757' W 85° 10.382'
OR	Oostanaula River	N 34° 16.459' W 85° 10.253'
CR	Coosa River	N 34° 14.568' W 85° 11.547'

Figure 3 shows the sample locations in relation to the GE Plant. The locations on the Oostanaula River and the Etowah River served as controls to determine if PCBs were present in the water column upstream of the targeted reaches for this study. The dissolved and particulate fractions of the water column were sampled and analyzed separately at each station. This was accomplished using an Infiltrex 300[®] trace organic sampler. All samples were analyzed for 209 PCB congeners using EPA Method 1668A (high-resolution mass spectrometer). Continuous recording multi-probe sondes (YSI 6920) were deployed at each station throughout the duration of the sample collection period. The sondes recorded measurements of dissolved oxygen, pH, temperature, conductivity, turbidity, and depth at 15 minute intervals. This data is presented in Appendix A.

At the time of sample collection, GE was conducting removal operations along the banks of Little Dry Creek and Horseleg Creek. The sample stations on Little Dry Creek and Horseleg Creek were located upstream of the removal areas in order to eliminate the possibility of these operations impacting the sample results. The tributary samples were collected in the following order: South Branch Little Dry Creek, Little Dry Creek and Horseleg Creek. The locations were selected based on what was anticipated to be least contaminated to most contaminated. The lowest concentrations were detected in Horseleg Creek, then Little Dry Creek. South Branch Little Dry Creek had the highest total PCB concentrations. It should be noted that approximately 1.62 inches of rainfall was recorded in the Rome, Georgia area on Monday, September 22, 2003 prior to commencement of sampling on Tuesday, September 23, 2003. It is possible that the results were influenced by contaminants delivered to the surface waters via groundwater infiltration or runoff from the adjacent flood plains. However, the rainfall and subsequent runoff did not result in conditions that were incompatible with the study objective to determine if PCBs were present in the subject surface waters. Further study would be required to determine if the PCB concentrations observed in the tributaries were influenced by groundwater and particularly from groundwater in the vicinity of the GE property.

5.0 Results and Discussion

Manufactured PCBs are mixtures of congeners of the PCB molecule that differ in their chlorine content. Most PCBs were commercially produced in the United States as standard mixtures bearing the brand name Aroclor (Rushneck, et al). Although their chemical properties vary, different mixtures have many common PCB congeners. PCBs also occur as mixtures of congeners in the environment but their composition differs from the commercial mixtures. This is because after release into the environment, the composition of PCB mixtures changes over time, through partitioning, chemical transformation and preferential bioaccumulation of certain congeners (EPA 1998). Due to the potential for changes in composition of PCB mixtures that occur in the environment, the samples were analyzed for individual congeners using Method 1668A (EPA 1999). The congener, total Aroclor and homologue results are presented in Appendix B. Total Aroclor values were calculated based on the congener results (Arys Analytical Services, Ltd 2003). Total PCB values based on the calculated aroclor results are in Table 2. Total PCB values are used for the basis of the discussion of the results in this report.

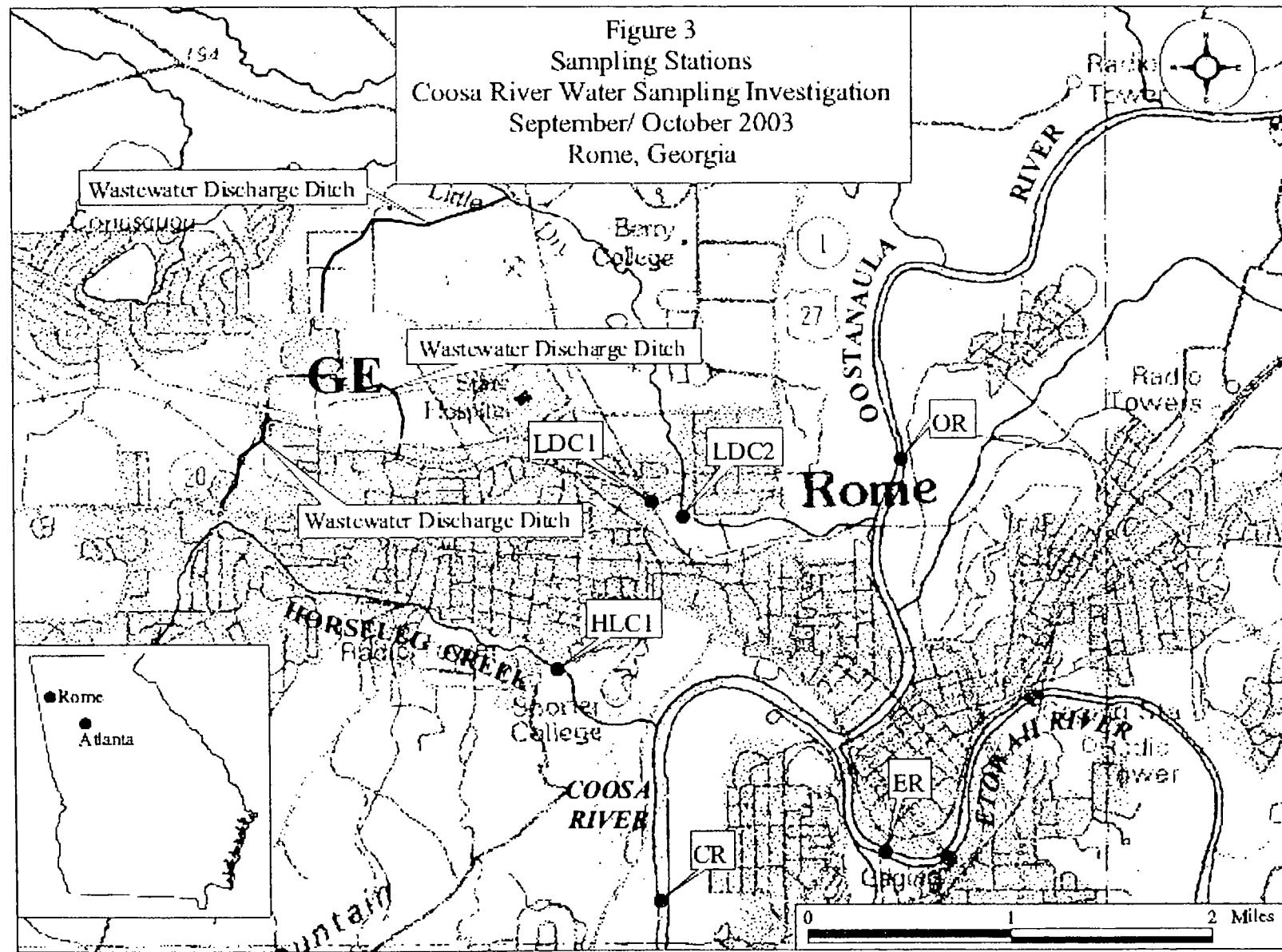


Table 2
 Total PCB Concentrations
 Coosa River PCB Water Sampling Investigation
 Rome, Georgia
 September/October 2003
 03-1068, 04-0048

Station	Location	Calculated Total PCB Concentration Dissolved Phase* ($\mu\text{g/l}$)	Calculated Total PCB Concentration Particulate Phase ($\mu\text{g/l}$)	Calculated Total PCB Concentration Dissolved and Particulate ($\mu\text{g/l}$)
LDC1	South Branch Little Dry Creek	0.173	0.0247	0.1977
LDC2	Little Dry Creek	0.149	0.0069	0.1559
HLC1	Horseleg Creek	0.0735	0.0039	0.0774
ER	Etowah River	0.000120	0.000170	0.00029
OR	Oostanaula River	0.000120	0.000160	0.00028
CR	Coosa River	0.000170	0.000240	0.00041

*Dissolved phase = <1 micron based on pore size of glass fiber filter.



Exceeds EPA water quality criteria continuous concentration (EPA 2002) of 0.014 $\mu\text{g/l}$ and the EPA human health criteria (EPA 2002) of 0.000064 $\mu\text{g/l}$

Exceeds EPA human health criteria of 0.000064 $\mu\text{g/l}$ (EPA 2002)

The total PCB concentrations from all of the tributaries and rivers exceeded EPA's human health water quality criteria of 0.000064 $\mu\text{g/l}$ (EPA 2002). All of the tributary samples exceeded EPA's continuous concentration water quality criteria of 0.014 $\mu\text{g/l}$ in the dissolved phase samples (EPA 2002).

Significant concentrations of PCBs were detected in the dissolved phase in all of the tributary samples. The concentrations detected in the particulate phase of the tributary samples were also elevated, but not as extensively as the dissolved phase samples. The PCB concentrations in the dissolved phase tributary samples were two to three orders of magnitude higher than the concentrations detected in the dissolved phase river samples. Additional information regarding the source(s) of PCBs in the rivers would be needed to fully understand the differences in concentrations between the rivers and tributaries. However, the increased volume of water in the rivers may cause dilution of the concentrations of PCBs introduced from the tributaries or other sources. Table 3 contains the flow rates for the tributary and river stations on the days

that sampling was conducted. The tributary flow rates were measured periodically throughout the duration of sample collection using a vertical-axis mounted Price pygmy meter. The values reported in Table 3 are averages. The flows for the rivers were obtained from United States Geological Survey gaging stations nearest to the sample locations (Stamey, unpublished data).

Table 3
Tributary and River Flow rates
Coosa River PCB Water Sampling Investigation
Rome, Georgia
September/October 2003
03-1068, 04-0048

Station	Date	Average Flow (cfs)
LDC1	09/23/03	0.15
LDC2	09/24/03	0.11
HLC1	09/25/03	1.04
ER	10/21/03 & 10/22/03	2500
OR	10/23/03	1980
CR	10/24/03	5350

Similar concentrations of PCBs were detected in the samples from the control stations on the Oostanaula and Etowah Rivers and in the downstream location, the Coosa River. The concentrations in the control samples were within approximately 30 percent of the downstream station. This difference may not be significant because the analytical method has a similar degree of precision. Additional data is needed to determine background concentrations of PCBs in the water column.

6.0 Data Management

6.1 Documentation and Records

All field activities were documented in bound logbooks. Upon completion of sampling activities, all documents, records and electronic files generated during the field investigation were processed, labeled, and maintained by the project leader during preparation of the report. Upon completion and transmittal of the report to the appropriate parties, project records were submitted to the SESD Records Room. Access to the analytical results for this project are available to EPA personnel through the Region 4 Laboratory Information Management System (R4LIMS).

6.2 Quality Assurance and Quality Control

Infiltrex 300® trace organic sampler collection and decontamination procedures were outlined in Appendix B of the Coosa River PCB Water Sampling Investigation Quality Assurance Project Plan (EPA 2003b). The following quality control samples were collected during this study to validate the procedures used to collect the samples and decontaminate the equipment.

Table 4
Quality Control Samples
Coosa River Water Sampling Investigation
September/October 2003
Rome, Georgia

Date/Time	Sample	Station	Mass of PCBs (pg)	Volume of Sample (L)	Concentration (pg/l)	
09/19/03	0940	QA-OW1	Organic free water blank	37	0.973	38
09/19/03	1005	QA-EB1	Equipment Rinse Blank	229	0.917	250
09/23/03	0953	LDC1-D	South Branch Little Dry Creek	190,000,000	1,004	190,000
09/24/03	0850	LDC2-D	Little Dry Creek	150,000,000	1,001	150,000
09/25/03	0735	QA-EB2	Equipment Rinse Blank	1000	1.01	990
09/25/03	0820	HLC1-D	Horseleg Creek	74,000,000	1,001	74,000
10/21/03	1050	ER-D	Etowah River	131,172	1,093	120
10/22/03	2015	QA-EB3	Equipment Rinse Blank	84	0.981	86
10/23/03	0903	OR-D	Oostanaula River	114,252	952	120
10/24/03	0858	CR-D	Coosa River	139,536	821	170
10/27/03	1120	QA-EB4	Equipment Rinse Blank	136	0.974	140

The mass of total PCBs detected in the quality control samples in picograms (pg) is insignificant when compared to the mass detected in the environmental samples.

All samples were handled in accordance to the procedures outlined in the Ecological Assessment Standard Operating Procedures and Quality Assurance Manual, January 2002. All equipment was calibrated according to the manufacturer's recommendations. Calibration was performed at the beginning of each deployment and checked against known standards upon retrieval.

Analytical results were validated and verified by the U.S. EPA, Region 4, SESD, Office of Quality Assurance and Data Integration.

7.0 Conclusions

Based on the results of the tributary samples, there is a source or sources present which are contributing PCB contamination to the water column at levels significantly higher than EPA's water quality criteria for total PCBs. Because the tributaries flow into the Oostanaula and Coosa Rivers, this source is a potential pathway of exposure for fish in the rivers. Further study would be needed to determine the source(s) of the contamination, the significance of the source(s) and the influence of the ongoing remediation activities on water column PCB concentrations.

Based on the results of the river samples, PCBs are present in the water column. Although an upward trend in total PCBs was observed from the control locations to downstream in the Coosa River, the data from this investigation is not conclusive concerning a significant increase in PCB levels downstream of the mouths of the tributaries. Samples collected at the mouths' of the tributaries may be helpful in determining the PCB contribution from the tributaries to the rivers.

8.0 Literature Cited

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Stamey, T. Unpublished data. United States Geological Survey Stream Gaging Program, 2003.

APPENDIX A
***IN SITU* WATER QUALITY PARAMETERS**

Appendix A
Station LDC1
In situ Water Quality Data
Coosa River Water Sampling Investigation
September/October 2003
Rome, Georgia

Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
9/23/2003	9:16:59	19.96	214.50	7.03	77.3	0.04	7.59	23.33
9/23/2003	9:31:59	19.95	215.16	6.99	76.9	0.04	7.62	21.56
9/23/2003	9:46:59	19.98	216.28	7.00	77.0	0.04	7.64	22.60
9/23/2003	10:01:59	20.00	217.09	6.99	76.9	0.04	7.64	20.21
9/23/2003	10:16:59	20.02	217.94	6.99	77.0	0.04	7.65	21.62
9/23/2003	10:31:59	20.07	218.98	6.99	77.1	0.04	7.65	20.15
9/23/2003	10:46:59	20.15	219.86	7.01	77.3	0.04	7.66	20.89
9/23/2003	11:02:00	20.23	220.70	7.03	77.7	0.04	7.66	19.60
9/23/2003	11:16:59	20.28	221.45	7.08	78.3	0.04	7.67	21.07
9/23/2003	11:31:59	20.41	221.96	7.11	78.8	0.04	7.68	19.60
9/23/2003	11:46:59	20.54	222.31	7.06	78.5	0.04	7.68	20.34
9/23/2003	12:01:59	20.60	223.19	7.09	78.9	0.04	7.68	19.54
9/23/2003	12:16:59	20.73	225.15	7.17	80.1	0.04	7.71	20.40
9/23/2003	12:32:00	20.96	226.89	7.21	80.9	0.04	7.73	19.48
9/23/2003	12:46:59	21.19	230.88	7.18	80.9	0.04	7.76	19.73
9/23/2003	13:01:59	21.46	234.01	7.19	81.4	0.05	7.80	18.57
9/23/2003	13:16:59	21.81	235.63	7.35	83.8	0.05	7.86	18.87
9/23/2003	13:32:00	22.06	236.74	7.27	83.3	0.05	7.90	16.80
9/23/2003	13:46:59	22.44	237.77	7.39	85.3	0.05	7.98	18.26
9/23/2003	14:01:59	22.60	239.48	7.40	85.6	0.05	8.00	17.47
9/23/2003	14:16:59	22.76	240.68	7.39	85.8	0.05	7.99	18.08
9/23/2003	14:31:59	22.85	240.96	7.44	86.5	0.05	8.01	16.49
9/23/2003	14:46:59	23.16	240.94	7.40	86.6	0.05	8.01	16.80
9/23/2003	15:01:59	23.26	242.30	7.44	87.2	0.05	8.05	15.52
9/23/2003	15:16:59	23.39	242.61	7.44	87.4	0.05	8.06	16.55
9/23/2003	15:31:59	23.56	243.23	7.44	87.7	0.05	8.06	15.82
9/23/2003	15:47:00	23.74	243.45	7.45	88.1	0.05	8.07	16.74
9/23/2003	16:01:59	23.96	243.89	7.43	88.2	0.05	8.07	15.88
9/23/2003	16:16:59	24.07	244.41	7.35	87.4	0.05	8.05	15.94
9/23/2003	16:31:59	24.09	245.29	7.42	88.3	0.05	8.06	15.33
9/23/2003	16:46:59	24.10	244.78	7.36	87.7	0.05	8.05	15.58
9/23/2003	17:01:59	24.14	245.33	7.31	87.2	0.05	8.04	15.03
9/23/2003	17:17:00	24.19	245.96	7.29	87.0	0.05	8.04	15.15
9/23/2003	17:31:59	24.28	245.85	7.27	86.9	0.05	8.04	14.29
9/23/2003	17:47:00	24.22	245.45	7.24	86.4	0.05	8.03	15.27
9/23/2003	18:01:59	24.26	246.16	7.18	85.7	0.05	8.02	13.99
9/23/2003	18:16:59	24.25	246.16	7.11	84.9	0.05	8.02	14.11
9/23/2003	18:31:59	24.22	246.14	7.05	84.2	0.05	8.00	13.56
9/23/2003	18:46:59	24.12	245.97	7.01	83.5	0.05	7.99	13.87
9/23/2003	19:01:59	24.04	246.34	6.96	82.8	0.05	7.97	12.59
9/23/2003	19:16:59	23.88	246.27	6.94	82.3	0.05	7.96	13.44
9/23/2003	19:31:59	23.72	246.11	6.83	80.8	0.05	7.95	12.59

Appendix A
Station LDC1
In situ Water Quality Data
Coosa River Water Sampling Investigation
September/October 2003
Rome, Georgia

Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
9/23/2003	19:47:00	23.55	246.52	6.81	80.3	0.05	7.93	13.26
9/23/2003	20:01:59	23.37	246.72	6.76	79.4	0.04	7.92	12.71
9/23/2003	20:16:59	23.28	246.38	6.70	78.6	0.04	7.91	12.89

Appendix A
Station LDC2
In situ Water Quality Data
 Coosa River Water Sampling Investigation
 September/October 2003
 Rome, Georgia

Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
9/24/2003	9:31:59	18.71	256.04	5.35	57.4	0.00	7.53	5.87
9/24/2003	9:46:59	18.71	256.29	5.36	57.5	0.00	7.53	5.87
9/24/2003	10:02:00	18.73	256.36	5.34	57.2	0.00	7.54	5.63
9/24/2003	10:16:59	18.74	256.71	5.37	57.6	0.00	7.54	5.57
9/24/2003	10:32:00	18.79	257.00	5.39	57.9	0.00	7.54	5.69
9/24/2003	10:46:59	18.81	257.13	5.41	58.2	0.00	7.54	5.51
9/24/2003	11:01:59	18.84	257.44	5.43	58.4	0.00	7.54	5.44
9/24/2003	11:17:00	18.88	257.44	5.49	59.0	0.00	7.54	5.26
9/24/2003	11:31:59	18.93	257.61	5.46	58.8	0.00	7.54	5.08
9/24/2003	11:46:59	19.00	257.72	5.45	58.8	0.00	7.54	4.96
9/24/2003	12:02:00	19.07	257.72	5.54	59.8	0.00	7.55	4.59
9/24/2003	12:17:00	19.16	257.78	5.55	60.0	0.01	7.55	4.65
9/24/2003	12:31:59	19.28	258.22	5.59	60.7	0.01	7.55	4.53
9/24/2003	12:46:59	19.48	258.32	5.65	61.5	0.01	7.55	4.28
9/24/2003	13:02:00	19.57	258.80	5.72	62.4	0.01	7.55	4.10
9/24/2003	13:16:59	19.69	258.89	5.85	64.0	0.01	7.55	4.16
9/24/2003	13:31:59	19.73	259.34	5.81	63.6	0.01	7.56	3.98
9/24/2003	13:46:59	19.83	259.43	5.90	64.7	0.01	7.57	3.92
9/24/2003	14:02:00	19.90	259.99	5.92	65.1	0.01	7.57	3.92
9/24/2003	14:16:59	20.00	260.09	5.98	65.8	0.01	7.58	3.92
9/24/2003	14:31:59	20.06	260.40	6.03	66.4	0.01	7.58	3.67
9/24/2003	14:46:59	20.15	260.73	6.07	67.0	0.01	7.59	3.74
9/24/2003	15:02:00	20.26	261.00	6.09	67.3	0.01	7.60	3.74
9/24/2003	15:17:00	20.39	261.00	6.23	69.1	0.01	7.60	3.49
9/24/2003	15:31:59	20.51	260.99	6.21	69.0	0.01	7.61	3.31
9/24/2003	15:46:59	20.57	261.23	6.25	69.5	0.01	7.61	3.37
9/24/2003	16:02:00	20.65	261.78	6.25	69.7	0.01	7.62	3.37
9/24/2003	16:16:59	20.75	261.97	6.29	70.2	0.01	7.62	3.31
9/24/2003	16:31:59	20.91	261.75	6.35	71.2	0.01	7.63	3.43
9/24/2003	16:46:59	20.92	261.97	6.32	70.9	0.01	7.63	3.06
9/24/2003	17:01:59	21.01	262.05	6.37	71.6	0.01	7.63	3.19
9/24/2003	17:16:59	21.09	262.04	6.36	71.5	0.01	7.64	3.00
9/24/2003	17:31:59	21.16	262.27	6.44	72.5	0.01	7.64	2.88
9/24/2003	17:47:00	21.22	262.21	6.43	72.4	0.01	7.64	3.00
9/24/2003	18:02:00	21.26	262.17	6.43	72.5	0.01	7.64	2.88
9/24/2003	18:16:59	21.28	262.37	6.41	72.3	0.01	7.65	2.76
9/24/2003	18:31:59	21.32	262.53	6.37	72.0	0.01	7.65	2.88
9/24/2003	18:46:59	21.35	262.48	6.36	71.9	0.01	7.65	2.58

Appendix A
Station HLC1
In situ Water Quality Data
 Coosa River Water Sampling Investigation
 September/October 2003
 Rome, Georgia

Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
9/25/2003	8:31:59	18.78	212.44	7.16	76.8	0.15	7.41	9.47
9/25/2003	8:46:59	18.75	211.24	7.18	77.1	0.15	7.42	9.05
9/25/2003	9:01:59	18.74	210.88	7.21	77.3	0.15	7.43	9.53
9/25/2003	9:16:59	18.72	210.51	7.28	78.1	0.15	7.44	8.80
9/25/2003	9:32:00	18.72	210.11	7.35	78.8	0.15	7.44	9.05
9/25/2003	9:46:59	18.71	210.33	7.41	79.5	0.15	7.44	8.19
9/25/2003	10:02:00	18.76	209.17	7.50	80.5	0.15	7.46	8.92
9/25/2003	10:17:00	18.81	208.76	7.60	81.6	0.15	7.47	8.80
9/25/2003	10:31:59	18.90	208.19	7.73	83.2	0.15	7.48	9.59
9/25/2003	10:46:59	19.03	207.09	7.87	84.9	0.15	7.49	9.84
9/25/2003	11:02:00	19.21	206.52	7.97	86.3	0.15	7.51	10.45
9/25/2003	11:16:59	19.36	207.20	8.11	88.1	0.15	7.51	11.06
9/25/2003	11:32:00	19.52	207.18	8.20	89.4	0.15	7.52	11.43
9/25/2003	11:46:59	19.72	206.01	8.36	91.4	0.15	7.55	11.55
9/25/2003	12:01:59	19.85	207.25	8.40	92.2	0.15	7.54	11.24
9/25/2003	12:16:59	19.95	207.99	8.41	92.5	0.15	7.54	11.43
9/25/2003	12:31:59	20.16	207.88	8.51	94.0	0.15	7.55	10.88
9/25/2003	12:46:59	20.30	208.77	8.54	94.5	0.15	7.55	10.94
9/25/2003	13:02:00	20.33	210.12	8.54	94.6	0.14	7.54	10.57
9/25/2003	13:16:59	20.36	211.06	8.46	93.8	0.14	7.53	10.82
9/25/2003	13:31:59	20.38	212.30	8.39	93.0	0.14	7.52	10.08
9/25/2003	13:46:59	20.52	211.74	8.38	93.2	0.14	7.54	9.29
9/25/2003	14:02:00	20.59	213.83	8.43	93.8	0.14	7.53	8.92
9/25/2003	14:16:59	20.73	215.03	8.48	94.7	0.13	7.51	8.37
9/25/2003	14:31:59	20.89	217.71	8.47	94.9	0.13	7.49	8.31
9/25/2003	14:47:00	20.94	219.23	8.45	94.7	0.13	7.46	8.86
9/25/2003	15:01:59	21.00	220.09	8.44	94.8	0.13	7.43	8.07
9/25/2003	15:16:59	21.14	219.10	8.51	95.7	0.13	7.46	7.70
9/25/2003	15:31:59	21.21	218.70	8.55	96.4	0.13	7.50	8.01
9/25/2003	15:47:00	21.22	219.42	8.45	95.3	0.13	7.46	8.80
9/25/2003	16:01:59	21.38	216.08	8.45	95.6	0.13	7.51	8.50
9/25/2003	16:16:59	21.43	215.52	8.42	95.3	0.13	7.49	7.21
9/25/2003	16:31:59	21.38	217.30	8.45	95.5	0.13	7.52	7.64
9/25/2003	16:47:00	21.47	216.23	8.37	94.8	0.13	7.50	7.58
9/25/2003	17:01:59	21.35	216.78	8.39	94.8	0.13	7.50	8.19
9/25/2003	17:16:59	21.43	217.21	8.20	92.8	0.13	7.48	6.79
9/25/2003	17:32:00	21.17	221.91	8.22	92.6	0.13	7.45	7.34
9/25/2003	17:46:59	21.42	217.89	8.03	90.9	0.14	7.46	7.03
9/25/2003	18:01:59	20.93	228.97	7.86	88.1	0.14	7.36	6.97
9/25/2003	18:16:59	21.13	219.28	7.83	88.1	0.14	7.41	7.15
9/25/2003	18:31:59	21.15	218.98	7.61	85.7	0.15	7.40	6.42
9/25/2003	18:46:59	21.28	218.74	7.51	84.7	0.14	7.40	6.48

Appendix A
Station ER
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Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
10/21/2003	10:31:59	17.70	154.32	9.17	96.3	2.53	7.63	24.91
10/21/2003	10:46:59	17.74	153.03	9.14	96.1	2.44	7.66	25.16
10/21/2003	11:01:59	17.80	151.32	9.12	95.9	2.63	7.63	25.89
10/21/2003	11:16:59	17.86	149.34	9.10	95.8	2.48	7.65	29.13
10/21/2003	11:31:59	17.93	147.03	9.07	95.7	2.39	7.65	26.87
10/21/2003	11:46:59	17.99	144.37	9.04	95.5	2.48	7.64	24.67
10/21/2003	12:01:59	18.08	141.61	9.02	95.4	2.23	7.59	22.84
10/21/2003	12:17:00	18.18	138.22	8.98	95.3	2.58	7.60	24.00
10/21/2003	12:31:59	18.28	134.72	8.95	95.1	2.54	7.59	25.77
10/21/2003	12:47:00	18.41	131.02	8.91	95.0	2.40	7.58	21.31
10/21/2003	13:01:59	18.54	127.18	8.89	95.0	2.51	7.56	21.80
10/21/2003	13:16:59	18.67	123.21	8.83	94.6	2.57	7.55	19.85
10/21/2003	13:31:59	18.81	119.56	8.78	94.3	2.53	7.53	21.98
10/21/2003	13:46:59	18.95	115.75	8.74	94.1	2.47	7.51	20.70
10/21/2003	14:01:59	19.07	112.01	8.69	93.9	2.34	7.49	20.46
10/21/2003	14:17:00	19.19	108.84	8.68	93.9	2.50	7.47	18.75
10/21/2003	14:31:59	19.32	105.61	8.65	93.8	2.55	7.46	19.12
10/21/2003	14:46:59	19.44	102.56	8.60	93.6	2.39	7.45	21.37
10/21/2003	15:02:00	19.54	99.85	8.57	93.5	2.62	7.44	19.91
10/21/2003	15:16:59	19.63	97.13	8.56	93.5	2.52	7.43	15.94
10/21/2003	15:31:59	19.72	94.86	8.55	93.5	2.57	7.42	17.35
10/21/2003	15:46:59	19.82	92.90	8.55	93.7	2.59	7.41	15.27
10/21/2003	16:01:59	19.90	90.99	8.55	93.8	2.60	7.40	15.39
10/21/2003	16:16:59	19.97	89.36	8.55	94.0	2.62	7.41	15.21
10/21/2003	16:31:59	20.03	87.93	8.56	94.2	2.76	7.40	14.23
10/21/2003	16:47:00	20.08	87.22	8.57	94.4	2.77	7.40	14.60
10/21/2003	17:01:59	20.13	85.56	8.60	94.9	2.70	7.40	14.42
10/21/2003	17:17:00	20.17	84.66	8.60	94.9	2.65	7.40	15.09
10/21/2003	17:31:59	20.20	83.83	8.63	95.3	2.68	7.41	20.03
10/21/2003	17:46:59	20.24	83.16	8.63	95.3	2.66	7.41	12.65
10/21/2003	18:01:59	20.26	82.58	8.66	95.7	2.61	7.41	10.63
10/21/2003	18:16:59	20.27	82.13	8.66	95.8	2.69	7.42	10.94
10/21/2003	18:31:59	20.28	81.72	8.67	95.9	2.68	7.42	8.68
10/21/2003	18:46:59	20.30	81.33	8.69	96.1	2.73	7.42	8.13
10/21/2003	19:02:00	20.31	81.10	8.69	96.2	2.75	7.42	9.66
10/21/2003	19:16:59	20.31	80.87	8.71	96.4	2.75	7.43	7.95
10/21/2003	19:31:59	20.31	80.70	8.72	96.5	2.78	7.44	6.79
10/21/2003	19:47:00	20.31	80.62	8.72	96.5	2.75	7.44	7.76
10/21/2003	20:01:59	20.30	80.54	8.75	96.8	2.76	7.44	6.60
10/21/2003	20:16:59	20.29	80.52	8.74	96.7	2.79	7.45	6.60
10/21/2003	20:32:00	20.28	80.51	8.74	96.7	2.68	7.44	5.26

Appendix A
Station ER
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Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
10/22/2003	9:17:00	19.49	92.32	8.40	91.5	2.39	7.37	27.84
10/22/2003	9:31:59	19.44	95.05	8.36	91.0	2.23	7.40	25.28
10/22/2003	9:47:00	19.39	98.42	8.36	90.8	1.90	7.37	24.18
10/22/2003	10:01:59	19.35	102.22	8.38	91.0	2.11	7.40	25.46
10/22/2003	10:16:59	19.31	105.94	8.40	91.1	2.27	7.44	25.65
10/22/2003	10:31:59	19.29	109.37	8.39	91.0	2.26	7.45	24.91
10/22/2003	10:46:59	19.26	112.20	8.42	91.3	2.20	7.45	21.62
10/22/2003	11:02:00	19.25	114.09	8.40	91.0	2.33	7.45	21.98
10/22/2003	11:16:59	19.24	115.23	8.40	91.0	2.13	7.45	19.54
10/22/2003	11:32:00	19.26	115.77	8.39	90.9	2.41	7.46	20.15
10/22/2003	11:46:59	19.29	115.21	8.39	91.0	2.29	7.45	19.67
10/22/2003	12:01:59	19.33	114.27	8.38	90.9	2.35	7.43	21.25
10/22/2003	12:16:59	19.39	112.68	8.33	90.5	2.50	7.40	18.32
10/22/2003	12:31:59	19.46	110.62	8.29	90.3	2.35	7.37	16.55
10/22/2003	12:47:00	19.53	108.18	8.28	90.3	2.62	7.31	16.98
10/22/2003	13:01:59	19.61	105.56	8.23	89.8	2.60	7.34	17.90
10/22/2003	13:16:59	19.68	102.82	8.20	89.6	2.48	7.37	15.64
10/22/2003	13:31:59	19.77	99.99	8.16	89.4	2.59	7.36	18.87
10/22/2003	13:47:00	19.84	97.21	8.06	88.4	2.89	7.33	18.08
10/22/2003	14:01:59	19.91	94.75	8.03	88.2	2.87	7.22	13.50
10/22/2003	14:16:59	19.99	92.30	8.02	88.2	2.84	7.32	13.81
10/22/2003	14:31:59	20.06	90.10	8.03	88.4	2.82	7.24	12.71
10/22/2003	14:46:59	20.13	88.16	8.01	88.3	2.88	7.23	13.62
10/22/2003	15:02:00	20.17	86.45	8.02	88.5	2.73	7.22	11.91
10/22/2003	15:16:59	20.22	84.93	8.01	88.5	2.74	7.24	9.29
10/22/2003	15:32:00	20.27	83.52	8.04	88.9	2.77	7.30	11.67
10/22/2003	15:46:59	20.31	82.44	8.03	88.9	2.82	7.30	9.11
10/22/2003	16:01:59	20.35	81.41	8.04	89.1	2.85	7.30	9.84
10/22/2003	16:16:59	20.37	80.63	8.08	89.5	2.75	7.30	7.70
10/22/2003	16:31:59	20.39	79.88	8.09	89.6	2.92	7.30	7.76
10/22/2003	16:47:00	20.41	79.39	8.11	89.9	2.95	7.32	7.89
10/22/2003	17:01:59	20.43	78.91	8.15	90.5	3.04	7.32	7.89
10/22/2003	17:17:00	20.43	78.52	8.19	90.8	3.01	7.33	7.52
10/22/2003	17:31:59	20.43	78.25	8.20	91.0	3.04	7.33	6.18
10/22/2003	17:46:59	20.42	78.02	8.22	91.2	2.98	7.34	5.63
10/22/2003	18:01:59	20.41	77.86	8.26	91.6	3.09	7.34	5.63
10/22/2003	18:16:59	20.41	77.75	8.28	91.8	3.04	7.36	5.14
10/22/2003	18:31:59	21.25	40.78	8.17	92.0	0.17	8.20	-6.46
10/22/2003	18:46:59	21.13	40.95	8.18	91.9	0.17	8.17	-6.52
10/22/2003	19:02:00	20.74	41.19	8.25	92.1	0.17	8.09	-6.21
10/22/2003	19:16:59	20.52	41.15	8.23	91.5	0.17	8.09	-6.52
10/22/2003	19:31:59	18.80	0.77	9.06	97.3	0.18	7.22	25.95

Appendix A
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Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
10/22/2003	19:46:59	20.52	0.72	8.62	95.7	0.17	7.41	256.12
10/22/2003	20:01:59	20.79	0.72	8.57	95.7	0.17	7.47	-5.73
10/22/2003	20:16:59	21.08	0.71	8.51	95.6	0.17	7.49	-4.50
10/22/2003	20:31:59	21.33	0.72	8.47	95.6	0.18	7.44	-5.79
10/22/2003	20:47:00	21.55	0.73	8.41	95.4	0.18	7.49	-4.81
10/22/2003	21:01:59	21.74	0.73	8.39	95.4	0.18	7.49	-5.73
10/22/2003	21:17:00	21.91	0.72	8.35	95.3	0.18	7.49	-4.81

Appendix A
 Station OR
In situ Water Quality Data
 Coosa River Water Sampling Investigation
 September/October 2003
 Rome, Georgia

Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
10/23/2003	10:16:59	17.75	88.29	8.16	85.7	5.14	7.87	12.46
10/23/2003	10:31:59	17.76	88.38	8.12	85.4	5.16	7.35	13.20
10/23/2003	10:46:59	17.77	88.34	8.08	85.0	5.22	7.27	15.09
10/23/2003	11:01:59	17.79	88.35	8.05	84.7	5.21	7.25	13.26
10/23/2003	11:16:59	17.81	88.39	8.04	84.6	5.26	7.24	12.83
10/23/2003	11:31:59	17.83	88.35	8.02	84.5	5.37	7.23	12.22
10/23/2003	11:46:59	17.83	88.44	8.01	84.3	5.12	7.23	14.36
10/23/2003	12:02:00	17.85	88.36	8.00	84.3	5.00	7.23	15.88
10/23/2003	12:16:59	17.85	88.47	8.01	84.3	5.25	7.23	14.05
10/23/2003	12:31:59	17.86	88.45	8.01	84.4	5.25	7.23	14.66
10/23/2003	12:46:59	17.88	88.48	8.01	84.4	5.26	7.23	13.44
10/23/2003	13:01:59	17.89	88.61	8.01	84.5	5.26	7.24	13.50
10/23/2003	13:16:59	17.92	88.69	8.02	84.6	5.26	7.24	16.13
10/23/2003	13:31:59	17.93	88.80	8.03	84.7	5.32	7.24	13.75
10/23/2003	13:46:59	17.96	88.89	8.04	84.9	5.31	7.24	15.03
10/23/2003	14:01:59	17.96	89.11	8.05	85.0	5.12	7.25	15.64
10/23/2003	14:17:00	17.98	89.27	8.05	85.0	5.25	7.25	15.76
10/23/2003	14:31:59	17.97	89.44	8.06	85.1	5.31	7.25	18.93
10/23/2003	14:46:59	17.98	89.65	8.07	85.2	5.28	7.26	16.92
10/23/2003	15:01:59	17.98	89.80	8.08	85.3	5.26	7.25	15.82
10/23/2003	15:17:00	18.01	89.94	8.09	85.4	5.26	7.26	16.06
10/23/2003	15:31:59	18.01	90.24	8.10	85.6	5.22	7.26	18.69
10/23/2003	15:46:59	18.03	90.43	8.11	85.7	5.24	7.26	17.77
10/23/2003	16:01:59	18.04	90.66	8.12	85.9	5.20	7.27	17.10
10/23/2003	16:16:59	18.06	90.89	8.13	86.0	5.33	7.27	17.16
10/23/2003	16:31:59	18.08	91.12	8.15	86.2	5.12	7.27	17.35
10/23/2003	16:46:59	18.09	91.24	8.15	86.2	5.11	7.28	17.71
10/23/2003	17:01:59	18.10	91.56	8.16	86.4	5.13	7.28	16.43
10/23/2003	17:16:59	18.10	91.75	8.17	86.5	5.27	7.28	18.14
10/23/2003	17:32:00	18.11	91.84	8.18	86.6	5.25	7.28	18.02
10/23/2003	17:46:59	18.12	92.13	8.19	86.7	5.25	7.29	18.26
10/23/2003	18:01:59	18.12	92.21	8.18	86.7	5.22	7.29	17.53
10/23/2003	18:16:59	18.12	92.35	8.18	86.7	5.17	7.29	18.44
10/23/2003	18:31:59	18.12	92.46	8.19	86.7	5.34	7.29	17.53
10/23/2003	18:46:59	18.12	92.59	8.18	86.7	5.23	7.29	18.38
10/23/2003	19:01:59	18.11	92.66	8.18	86.6	5.26	7.29	18.93
10/23/2003	19:16:59	18.10	92.69	8.18	86.6	5.16	7.29	21.37
10/23/2003	19:31:59	18.10	92.91	8.18	86.5	5.25	7.29	17.53
10/23/2003	19:47:00	18.10	93.14	8.17	86.5	5.24	7.29	18.20
10/23/2003	20:01:59	18.09	93.15	8.17	86.4	5.37	7.29	18.75
10/23/2003	20:16:59	18.09	93.26	8.16	86.4	5.25	7.29	18.63
10/23/2003	20:31:59	18.08	93.07	8.16	86.4	5.23	7.29	18.99

Appendix A
Station OR
In situ Water Quality Data
Coosa River Water Sampling Investigation
September/October 2003
Rome, Georgia

Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
10/23/2003	20:47:00	18.07	93.27	8.15	86.3	5.25	7.28	19.60
10/23/2003	21:01:59	18.05	93.25	8.15	86.2	5.24	7.28	20.64
10/23/2003	21:16:59	18.04	93.07	8.14	86.1	5.21	7.28	20.21

Appendix A
 Station CR
In situ Water Quality Data
 Coosa River Water Sampling Investigation
 September/October 2003
 Rome Georgia

Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
10/24/2003	9:16:59	18.50	99.17	7.9	84.3	4.32	7.33	21.01
10/24/2003	9:31:59	18.49	96.92	7.86	83.9	4.44	7.20	22.17
10/24/2003	9:46:59	18.47	94.31	7.83	83.5	4.57	7.16	20.21
10/24/2003	10:02:00	18.45	91.68	7.78	83.0	4.25	7.12	18.81
10/24/2003	10:16:59	18.51	89.49	7.74	82.6	4.42	7.10	19.42
10/24/2003	10:31:59	18.53	87.64	7.71	82.3	4.41	7.08	18.32
10/24/2003	10:46:59	18.55	85.80	7.69	82.2	4.58	7.08	18.63
10/24/2003	11:01:59	18.61	84.37	7.67	82.0	4.49	7.06	16.92
10/24/2003	11:16:59	18.58	83.35	7.67	82.0	4.55	7.05	17.96
10/24/2003	11:31:59	18.63	82.45	7.66	82.0	4.43	7.05	15.82
10/24/2003	11:46:59	18.64	81.80	7.63	81.6	4.54	7.05	16.13
10/24/2003	12:02:00	18.55	82.01	7.7	82.3	4.55	7.05	16.00
10/24/2003	12:16:59	18.64	81.30	7.68	82.2	4.4	7.05	15.09
10/24/2003	12:31:59	18.64	81.24	7.71	82.5	4.39	7.06	13.50
10/24/2003	12:46:59	18.68	80.98	7.72	82.6	4.48	7.06	13.81
10/24/2003	13:01:59	18.68	81.09	7.74	82.9	4.47	7.06	14.05
10/24/2003	13:16:59	18.73	80.93	7.75	83.1	4.35	7.06	12.65
10/24/2003	13:31:59	18.72	81.35	7.77	83.3	4.47	7.07	15.76
10/24/2003	13:46:59	18.64	82.26	7.83	83.8	4.54	7.08	12.22
10/24/2003	14:01:59	18.74	81.96	7.82	83.9	4.5	7.08	12.59
10/24/2003	14:17:00	18.75	82.09	7.85	84.2	4.36	7.07	11.73
10/24/2003	14:31:59	18.78	82.29	7.86	84.4	4.58	7.08	13.44
10/24/2003	14:47:00	18.89	81.73	7.85	84.5	4.55	7.09	19.24
10/24/2003	15:01:59	18.87	82.30	7.88	84.8	4.58	7.10	12.77
10/24/2003	15:16:59	18.82	82.95	7.92	85.1	4.46	7.10	12.71
10/24/2003	15:31:59	18.97	82.26	7.92	85.3	4.54	7.13	10.57
10/24/2003	15:46:59	18.88	83.04	7.96	85.6	4.65	7.14	12.40
10/24/2003	16:01:59	18.86	83.47	7.97	85.7	4.6	7.14	11.24
10/24/2003	16:16:59	18.90	83.44	7.97	85.8	4.27	7.15	13.56
10/24/2003	16:31:59	18.73	84.78	8.03	86.1	4.19	7.16	12.10
10/24/2003	16:46:59	18.79	84.66	8.03	86.2	4.15	7.16	10.82
10/24/2003	17:02:00	18.89	84.11	8.03	86.3	4.33	7.17	13.20
10/24/2003	17:16:59	18.85	84.50	8.04	86.5	4.31	7.17	11.73
10/24/2003	17:31:59	18.76	85.17	8.07	86.6	4.25	7.18	11.24
10/24/2003	17:46:59	18.81	84.97	8.08	86.8	4.21	7.19	11.73
10/24/2003	18:01:59	18.70	85.73	8.11	86.9	4.47	7.19	11.36
10/24/2003	18:16:59	18.72	85.66	8.11	87.0	4.34	7.19	11.49
10/24/2003	18:31:59	18.70	86.06	8.13	87.1	4.31	7.20	11.06
10/24/2003	18:46:59	18.73	85.97	8.11	87.0	4.15	7.20	10.57
10/24/2003	19:01:59	18.71	86.26	8.13	87.2	4.38	7.21	11.18
10/24/2003	19:17:00	18.65	86.78	8.15	87.2	4.37	7.21	10.27
10/24/2003	19:31:59	18.59	87.26	8.16	87.2	4.37	7.21	10.45

Appendix A
 Station CR
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 Coosa River Water Sampling Investigation
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 Rome Georgia

Date mm/dd/yy	Time hh:mm:ss	Temp C	SpCond uS/cm	DO mg/L	DO %	Depth ft	pH	Turbidity NTU
10/24/2003	19:46:59	18.62	87.34	8.16	87.3	4.36	7.22	11.18
10/24/2003	20:01:59	18.54	87.93	8.16	87.2	4.41	7.22	12.34
10/24/2003	20:17:00	18.67	87.65	8.16	87.4	4.33	7.22	10.08
10/24/2003	20:31:59	18.61	88.14	8.17	87.4	4.37	7.22	10.14
10/24/2003	20:46:59	18.55	88.70	8.17	87.3	4.39	7.23	10.51
10/24/2003	21:01:59	18.58	88.84	8.16	87.3	4.4	7.23	10.82
10/24/2003	21:16:59	18.50	89.56	8.17	87.2	4.38	7.23	10.14

APPENDIX B
PCB CONGENER, HOMOLOGUE AND AROCLOR RESULTS

Appendix B
PCB Congener, Homologue, and Aroclor Data
Coosa River Water Sampling Investigation
September/October 2003
Rome, Georgia

UNITS	HLC1-D	HLC1-P	LDC1-D	LDC1-P	LDC2-D	LDC2-P	CR-D	CR-P	ER-D	ER-P	OR-D	OR-P
	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L
Congeners												
PCB-1	112000	399	397000	1510	997000	1460	2310	740	1140	799	2460	517
PCB-2	6290	122	24200	232	9250	115	1990	1120	1410	1220	1510	647
PCB-3	129000	K1700	115000	1040	143000	1260	6980	3370	5170	3540	4770	1900
PCB-4	2950000	8890	11000000	68300	13100000	41700	5840	944	2170	393	3820	892
PCB-5	2500	<25.8	6660	60.2	5070	26.2	80.6	106	91.9	217	68.2	22.6
PCB-6	159000	1380	304000	4310	401000	2330	1010	483	467	382	677	286
PCB-7	33800	281	61000	820	82900	467	726	78	120	86	296	58.2
PCB-8	606000	4880	1330000	14900	1460000	7790	3410	1520	1910	1370	2830	1180
PCB-9	6960	92.6	66900	796	82700	415	263	231	209	472	222	84.4
PCB-10	822000	1860	338000	2660	605000	1550	301	50	143	26.6	302	77.6
PCB-11	89800	1900	13800	904	8970	308	1120	860	942	745	727	563
PCB-12/13	344000	7430	77400	3170	82100	1870	414	739	244	1100	268	347
PCB-14	<474	<24.6	<707	<16.2	<979	<15.3	<8.99	36.7	22.3	92	12.8	12.5
PCB-15	2330000	60400	665000	29500	866000	19300	3320	4140	1450	1850	4420	6130
PCB-16	142000	1790	285000	6000	199000	1320	1190	472	1120	572	1100	316
PCB-17	2380000	32700	3200000	76200	3510000	25300	2200	774	1250	415	1220	393
PCB-18/30	569000	7010	1520000	59600	1330000	15200	3000	1020	2550	946	2410	638
PCB-19	13300000	85700	25300000	250000	18400000	109000	3430	606	1310	220	592	85.9
PCB-20/28	3570000	106000	2230000	142000	1680000	37700	4960	3370	3970	2520	2900	1850
PCB-21/33	149000	4560	574000	46900	392000	9990	1250	1190	1050	1360	950	639
PCB-22	938000	22000	325000	14500	213000	4050	1440	1010	1240	923	908	512
PCB-23	<694	872	1070	58.1	<450	207	7.63	K9.00	8.32	20.1	5.35	2.8
PCB-24	11100	154	9370	284	<36.7	72	75.2	27.2	80.7	32	67.5	20.9
PCB-25	418000	11200	412000	12700	410000	5000	556	451	248	197	198	134
PCB-26/29	575000	13400	380000	18300	374000	6520	1210	789	589	479	567	326
PCB-27	1110000	12800	747000	15600	980000	6530	525	170	385	98.2	258	73.4
PCB-31	1090000	28300	1330000	60900	1030000	16800	4220	2850	3230	2500	2470	1360
PCB-32	4820000	45200	3350000	63600	2720000	20800	1700	523	832	279	779	240
PCB-34	36800	<20.8	18100	856	13900	206	50.5	32.9	45.7	50	20.7	9.69
PCB-35	26400	1480	7850	735	3910	244	63.7	96.3	54.7	125	40.7	52.1
PCB-36	2470	127	<506	96.6	<417	25.3	10	10.1	11.8	16.4	5.29	2.45
PCB-37	343000	22900	243000	19400	170000	8390	869	1570	657	1390	593	928
PCB-38	1290	101	3920	359	4560	84.8	K12.8	18.1	K8.46	32.1	K8.11	16
PCB-39	19200	808	6320	518	5030	129	49.7	39.2	59.6	62.7	31.6	10.9
PCB-40/41/71	2120000	65900	1950000	198000	1730000	43700	1840	1410	1240	886	958	648

Appendix B
 PCB Congener, Homologue, and Aroclor Data
 Coosa River Water Sampling Investigation
 September/October 2003
 Rome, Georgia

UNITS	HLC1-D	HLC1-P	LDC1-D	LDC1-P	LDC2-D	LDC2-P	CR-D	CR-P	ER-D	ER-P	OR-D	OR-P
	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L
PCB-42	540000	18500	386000	27800	343000	6790	923	667	708	470	514	349
PCB-43	114000	3130	92800	5790	77000	1300	136	78.3	116	68.1	78.3	38.9
PCB-44/47/65	4350000	164000	14800000	990000	12700000	248000	6590	4380	4230	2280	3140	1600
PCB-45/51	2320000	56200	12400000	509000	9780000	128000	2340	1270	861	308	549	186
PCB-46	268000	4920	294000	12000	257000	2850	260	122	201	89.2	156	59.8
PCB-48	212000	6650	113000	7910	105000	2000	462	348	436	280	334	207
PCB-49/69	2020000	68800	6860000	404000	5960000	207000	3900	2690	2660	1580	1860	1080
PCB-50/53	1440000	28200	8960000	290000	7780000	82100	1770	900	826	274	504	162
PCB-52	2070000	60400	3870000	180000	3610000	64100	6980	3780	5560	2880	5720	2710
PCB-54	723000	11100	5020000	128000	4640000	43600	764	251	153	27.9	53.4	7.23
PCB-55	<249	709	<603	824	<190	306	K34.3	36.2	20.2	26.8	23.2	28.3
PCB-56	620000	36300	268000	27700	232000	8910	865	1170	693	1050	569	705
PCB-57	9740	561	7820	978	7180	271	21.8	20.7	14.7	K15.9	8.89	<6.83
PCB-58	11000	664	5100	7430	4760	2240	<7.22	<8.45	13.7	22.8	<2.32	<6.53
PCB-59/62/75	173000	6180	269000	22500	310000	6310	384	274	330	195	214	140
PCB-60	115000	8110	72000	7110	74800	3510	435	521	366	445	290	380
PCB-61/70/74/76	1870000	111000	1200000	176000	1050000	52300	4660	4840	4190	4170	3370	3670
PCB-63	88300	4780	67900	9020	62000	2030	165	129	137	120	79.9	74.7
PCB-64	564000	20600	418000	26000	422000	8800	1830	1190	1710	978	1130	673
PCB-66	1730000	116000	1040000	127000	917000	35000	2710	3070	2300	2280	1550	2130
PCB-67	40400	2370	49700	1870	67500	581	81.3	89.3	62.4	72.9	43.9	50.9
PCB-68	51900	2890	102000	14500	104000	3060	120	74.1	98.1	53.5	66	27.5
PCB-72	48200	2350	57400	6370	54800	1630	97.5	80.1	74.9	77.8	40.8	35.5
PCB-73	86300	3780	462000	35100	539000	9430	121	87.4	38.9	<0.428	18.9	<0.388
PCB-77	151000	17900	54800	8360	37700	3260	173	511	148	532	114	301
PCB-78	821	72.4	1520	282	2120	56.1	<7.79	<9.24	<2.52	<3.87	<2.49	<7.14
PCB-79	15900	1530	20200	2650	18500	726	50.3	79.2	54	88.6	51.6	61.6
PCB-80	<228	<27.0	1200	144	1080	52.6	<6.91	<8.21	<2.27	<3.44	<2.24	<6.35
PCB-81	2660	298	1320	159	1050	80.5	7.12	14.7	K6.73	16.7	K4.98	9.96
PCB-82	54300	4470	65500	6640	45600	2400	460	570	295	441	475	690
PCB-83/99	622000	56400	2410000	421000	1710000	91900	4100	4860	3630	4610	3130	4100
PCB-84	147000	7970	297000	24900	191000	6470	1250	1050	950	813	1350	1240
PCB-85/116/117	120000	11300	215000	46700	165000	13400	1010	1340	847	1150	887	1430
PCB-86/87/97/108/119/125	462000	36400	1160000	265000	875000	64700	3350	3820	2720	4380	3100	3960
PCB-88/91	226000	15700	1750000	234000	1220000	92800	1110	1230	709	622	738	758

Appendix B
 PCB Congener, Homologue, and Aroclor Data
 Coosa River Water Sampling Investigation
 September/October 2003
 Rome, Georgia

UNITS	HLC1-D	HLC1-P	LDC1-D	LDC1-P	LDC2-D	LDC2-P	CR-D	CR-P	ER-D	ER-P	OR-D	OR-P
	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L
PCB-89	9650	610	9060	855	6540	265	35.4	37.4	21.6	K26.2	36	41.1
PCB-90/101/113	971000	78500	5440000	706000	6220000	155000	6130	7020	5030	6380	4850	5750
PCB-92	240000	16500	1300000	183000	851000	37800	1430	1500	1030	1130	980	978
PCB-93/95/98/100/102	990000	58800	6530000	626000	8200000	408000	5560	4830	4150	3330	4900	3980
PCB-94	85200	4580	764000	89800	502000	16300	208	196	53.9	35.6	38.6	23.9
PCB-96	30400	1400	263000	23700	174000	4670	81.2	71.2	35.2	26.6	34.8	23.5
PCB-103	65800	4040	707000	95500	638000	25700	239	297	87.2	69.3	68	46.3
PCB-104	30900	1950	274000	36800	267000	10900	93.1	90.6	14.3	5.82	16.5	K8.59
PCB-105	157000	26100	203000	47400	140000	16100	1570	3480	1340	3260	1290	3570
PCB-106	<125	<11.2	<315	<36.9	<128	<12.8	12.9	<9.80	<1.58	<16.8	<5.66	<7.63
PCB-107/124	21700	2680	25600	4500	18200	1420	188	286	122	273	132	277
PCB-109	59800	7650	133000	30700	85200	6860	459	696	362	708	289	627
PCB-110/115	699000	56900	1620000	196000	1100000	51300	6220	7630	5060	6520	5600	8030
PCB-111	2620	250	16800	4210	12800	908	11.2	16.2	7.29	K15.8	K3.36	3.8
PCB-112	<297	<9.18	<1540	<23.5	<210	<44.4	<4.03	<3.18	<1.50	<1.96	<2.36	<1.06
PCB-114	8460	1310	10900	4560	7840	1350	95.2	175	81.2	197	58.2	128
PCB-118	492000	68500	791000	146000	544000	42100	4770	8350	4270	8200	3410	7820
PCB-120	7180	816	41100	10500	30900	2380	K45.8	68	34.3	65.6	20	28.9
PCB-121	4400	313	48300	8600	53600	2760	38.4	35.4	13.7	9.52	34.2	18.4
PCB-122	8080	1040	7850	1240	5330	441	52	94.8	31.3	K79.6	39.4	91.9
PCB-123	8350	1560	10300	1880	7150	661	86.5	168	69.9	146	84.5	172
PCB-126	4510	902	2660	612	1520	187	K11.3	45.3	10.5	50.4	10.2	38.7
PCB-127	728	155	1730	483	1220	108	<8.28	<9.97	<1.59	<17.0	<5.71	K16.9
PCB-128/166	62300	21000	144000	136000	89900	40300	754	2190	554	1920	602	2170
PCB-129/138/160/163	965000	187000	3430000	1120000	2410000	434000	5650	15000	4240	11500	4020	12100
PCB-130	47100	8090	143000	48900	96700	11200	347	759	224	597	252	706
PCB-131	6410	890	18900	4870	12600	1080	55.9	99.9	33.3	88.5	53.7	114
PCB-132	253000	36600	1110000	266000	647000	56600	1510	3090	786	1730	1230	2630
PCB-133	27500	4170	205000	76700	154000	17700	189	410	80	193	75.6	151
PCB-134/143	49600	6220	215000	89600	139000	18500	288	455	145	277	213	382
PCB-135/151/154	607000	76600	3700000	970000	2510000	596000	3180	4810	1290	2270	1440	2320
PCB-136	148000	17900	926000	197000	569000	39900	818	1130	355	510	469	678
PCB-137	15900	3330	40000	15800	25900	3960	204	517	157	462	178	565
PCB-139/140	10800	1830	71000	23000	45500	4730	117	207	70.5	166	87.5	187
PCB-141	196000	35200	795000	281000	505000	62300	940	2310	495	1360	546	1460

Appendix B
 PCB Congener, Homologue, and Aroclor Data
 Coosa River Water Sampling Investigation
 September/October 2003
 Rome, Georgia

	HLC1-D	HLC1-P	LDC1-D	LDC1-P	LDC2-D	LDC2-P	CR-D	CR-P	ER-D	ER-P	OR-D	OR-P
UNITS	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L
PCB-142	545	61.4	500	<113	457	<30.6	<12.3	<13.2	<4.89	12	<3.30	<6.85
PCB-144	52300	6750	231000	68900	159000	14600	252	311	137	269	162	222
PCB-145	548	73.5	1090	254	735	60.5	<1.67	K2.81	K1.42	<0.121	<0.0702	<0.371
PCB-146	215000	35100	1160000	410000	820000	95800	1240	2800	782	2060	642	1520
PCB-147/149	1100000	175000	5550000	1490000	3810000	323000	5110	9930	2820	5410	3240	6280
PCB-148	8410	1140	110000	38200	89000	9020	85.4	139	16.3	K26.5	26.8	31.4
PCB-150	5980	881	78200	26400	61400	5760	43.2	67.7	8.91	14.8	12.5	16.4
PCB-152	7510	841	56700	15200	38500	2710	20.5	27.6	5.69	8.33	4.47	6.23
PCB-153/168	1110000	222000	4500000	1680000	3410000	398000	6150	13700	4500	11100	3730	8960
PCB-155	1330	238	14600	6160	17200	2150	84.8	101	4.48	K8.12	153	225
PCB-156/157	52200	12700	137000	61000	87900	14400	324	1230	308	1130	314	1140
PCB-158	74300	13800	239000	83300	171000	19900	77.8	290	351	290	367	321
PCB-159	21100	5550	66800	26500	48900	6690	453	1280	22.1	1080	24.7	1080
PCB-161	<123	<23.7	<365	<79.0	<167	<21.4	38.2	181	<3.29	97	<2.22	97.7
PCB-162	3210	747	4540	2290	2790	573	<8.49	<9.39	20.8	<5.26	15.6	<4.88
PCB-164	71000	12300	265000	86600	174000	18800	K23.7	K85.0	210	K132	269	48
PCB-165	2730	326	24800	8410	22100	2500	367	886	6.57	528	3.3	717
PCB-167	28900	7020	57800	27500	42900	6450	K18.8	49.9	135	K14.2	127	<5.37
PCB-169	379	113	271	139	165	33.5	162	568	<2.23	539	<1.51	534
PCB-170	291000	87300	766000	577000	540000	117000	<1.50	K7.02	387	K7.99	380	7.19
PCB-171/173	96600	26000	296000	201000	215000	40900	746	5970	142	2910	141	2720
PCB-172	64100	18000	175000	139000	124000	29600	297	1440	101	869	98	722
PCB-174	380000	91200	1450000	813000	937000	163000	166	984	447	705	531	489
PCB-175	15500	3420	52800	35400	40900	7520	1150	5160	23.5	2460	22	2460
PCB-176	47400	10400	203000	120000	147000	24200	50.2	203	60	159	62.8	103
PCB-177	231000	57000	856000	496000	600000	102000	151	582	297	248	318	234
PCB-178	99100	21000	440000	249000	345000	61400	690	3230	155	1490	171	1420
PCB-179	177000	37000	892000	439000	623000	94200	380	1520	233	779	287	600
PCB-180/193	792000	251000	2380000	1810000	1740000	400000	602	2380	1210	967	1100	952
PCB-181	1750	438	5380	3800	4730	878	2210	12800	4.51	7770	5.27	6060
PCB-182	1980	445	11200	6990	7640	1560	K6.09	37.2	K5.82	31.3	K3.94	23.4
PCB-183/185	254000	62400	855000	569000	647000	245000	K9.71	35.5	405	32.5	375	22.1
PCB-184	230	58.7	1210	859	1130	216	823	3520	2.56	2230	98.1	1700
PCB-186	171	34.5	256	99.6	214	25.3	51	112	0.592	15.1	<0.291	260
PCB-187	539000	131000	2280000	1370000	1760000	335000	<1.10	K2.76	1050	7.25	956	<0.770

Appendix B
 PCB Congener, Homologue, and Aroclor Data
 Coosa River Water Sampling Investigation
 September/October 2003
 Rome, Georgia

	HLC1-D	HLC1-P	LDC1-D	LDC1-P	LDC2-D	LDC2-P	CR-D	CR-P	ER-D	ER-P	OR-D	OR-P
UNITS	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L
PCB-188	1190	326	9910	8180	10900	2300	2090	7950	K1.95	4920	K1.64	3520
PCB-189	10600	4210	20700	22600	14800	5010	5.78	22	16.5	9.53	16.2	4.94
PCB-190	70000	20400	194000	127000	148000	28500	25.8	187	107	133	89.2	103
PCB-191	13100	3390	36700	28500	27000	6120	181	1290	19.6	635	17.5	564
PCB-192	<26.8	<1.45	<77.7	<17.2	<72.7	<10.7	33.9	.213	K0.482	119	<0.333	94
PCB-194	196000	89900	372000	580000	248000	129000	<1.05	K2.41	208	K5.83	187	K2.46
PCB-195	85100	37800	166000	226000	119000	47400	370	3520	86.8	1950	82.7	1640
PCB-196	103000	41500	220000	317000	154000	66400	162	1530	175	630	175	652
PCB-197/200	34500	12200	86400	228000	63400	47200	397	2340	65.4	1160	72.4	1020
PCB-198/199	223000	79000	536000	706000	383000	150000	161	543	512	314	520	247
PCB-201	24800	8320	69700	97300	54800	20800	1220	4590	57.3	3100	67.5	2310
PCB-202	39500	15200	121000	146000	101000	34200	161	471	111	400	123	215
PCB-203	130000	56200	288000	419000	213000	92300	219	854	330	507	337	502
PCB-204	53.8	22	84.9	153	103	47	727	2880	0.137	1370	K1.50	1400
PCB-205	10300	4990	19500	33200	13300	7800	<1.48	K4.22	12	K10.1	11.3	K7.25
PCB-206	41600	26300	85500	193000	53100	46000	23.7	189	181	110	193	85.4
PCB-207	6680	3840	13900	30100	8410	7020	356	2060	43.6	1540	54.1	1780
PCB-208	10300	5610	21600	43500	12400	9950	88.6	238	112	368	128	193
PCB-209	2290	1910	2250	5010	933	1360	208	700	87.3	744	86.8	746
Homologues												
Total Monochloro Biphenyls	247000	521	536000	2780	1150000	2830	122	1530	7720	1590	8730	1850
Total Dichloro Biphenyls	7340000	87100	13800000	125000	16600000	75700	11300	5230	7760	5560	13600	3060
Total Trichloro Biphenyls	29500000	397000	39900000	789000	31400000	267000	16500	9200	18700	6740	15100	9650
Total Tetrachloro Biphenyls	21700000	824000	58800000	3230000	50900000	968000	26800	15000	27200	12200	21400	7610
Total Pentachloro Biphenyls	5530000	467000	24100000	3220000	23100000	1060000	37700	28100	31000	19300	31600	15300
Total Hexachloro Biphenyls	5150000	893000	23300000	7260000	16200000	2210000	38600	47900	17800	42400	18300	43800
Total Heptachloro Biphenyls	3090000	825000	10900000	7020000	7940000	1660000	28400	62600	4660	43600	4670	44600
Total Octachloro Biphenyls	846000	345000	1880000	2750000	1350000	595000	9660	47700	1560	26500	1580	22100
Total Nonachloro Biphenyls	58600	35800	121000	267000	74000	63000	3440	16900	336	9540	375	8070
Decachloro Biphenyl	2290	1910	2250	5010	933	1360	653	3000	87.3	2650	86.8	2720
Total PCBs	73500000	3880000	173000000	24700000	149000000	6900000	122	1530	117000	1590	115000	1850

Appendix B
PCB Congener, Homologue, and Aroclor Data
Coosa River Water Sampling Investigation
September/October 2003
Rome, Georgia

UNITS Aroclors	HLC1-D	HLC1-P	LDC1-D	LDC1-P	LDC2-D	LDC2-P	CR-D	CR-P	ER-D	ER-P	OR-D	OR-P
	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L	fg/L
Aroclor 1016	<126000	<64.3	<1790	<86.8	<2480	<52.3	0.913	6.65	<7.44	7.08	<6.40	5.94
Aroclor 1221	<623	<33.3	<930	<21.0	<1290	<19.8	<22.9	<5.92	<3.86	<8.32	<3.35	<4.43
Aroclor 1232	<118	<21.0	<247	<77.3	<376	<65.8	<11.9	<20.5	<5.25	<21.5	<8.13	<12.9
Aroclor 1242	17500000	439000	19200000	834000	16500000	232000	<17.3	<49.8	35000	<52.2	31800	<31.3
Aroclor 1248	<22600	<171	<97700	<531	<83900	<247	46700	26300	<13.6	22000	<13.5	15100
Aroclor 1254	8670000	742000	28600000	5490000	20700000	1250000	<40.3	<51.0	50800	<21.3	49800	<39.4
Aroclor 1260	6690000	2010000	20000000	14800000	14700000	3810000	59600	69400	10000	71900	9280	64500

K / R / NDR = peak detected but did not meet quantification criteria. Number represents an unconfirmed concentration.

< = less than the detection limit. Number represents the detection limit.